



**NATIONAL  
INSTITUTE  
OF  
STATISTICS**



**ECOLOGICAL  
UNIVERSITY  
OF  
BUCHAREST**



**BUCHAREST  
UNIVERSITY OF  
ECONOMIC  
STUDIES**



**UNIVERSITI  
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**THE  
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**NICOLAE  
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UNIVERSITY  
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**THE WORLD OF  
STATISTICS**

## The 5<sup>th</sup> International Conference

### New Challenges for Statistical Software

### - The Use of R in Official Statistics –

### uRos2017

# PROGRAMME

Bucharest, Romania

6-7 November 2017



<http://www.r-project.ro/conference2017/>

### SCIENTIFIC COMMITTEE

- Tudorel ANDREI** – National Institute of Statistics and Bucharest University of Economic Studies, Bucharest, Romania  
**Matthias TEMPL** – Statistics Austria & Vienna University of Technology  
**Ralf MÜNNICH** – University of Trier, Germany  
**Risto LEHTONEN** – University of Helsinki, Finland  
**Gergely DARÓCZI** – Easystats Ltd, Budapest, Hungary  
**Valentina VASILE** – Romanian Academy – Institute of National Economy, Bucharest, Romania  
**Bogdan OANCEA** – University of Bucharest and National Institute of Statistics, Bucharest  
**Nicoleta CARAGEA** – National Institute of Statistics/Ecological University of Bucharest  
**Ciprian ALEXANDRU** – National Institute of Statistics/Ecological University of Bucharest  
**Adrian DUSA** – University of Bucharest, Romania  
**Elena DRUICA** – University of Bucharest, Romania  
**Nicolae-Marius JULA** – Nicolae Titulescu University, Bucharest, Romania  
**Ana Maria DOBRE** – National Institute of Statistics  
**Monica ROMAN** - Bucharest Academy of Economic Studies

### ORGANIZING COMMITTEE

- Tudorel ANDREI** - National Institute of Statistics and University of Economic Studies  
**Nicoleta CARAGEA** - National Institute of Statistics/Ecological University of Bucharest  
**Bogdan OANCEA** – University of Bucharest, Department of Economic and Administrative Sciences  
**Ciprian ALEXANDRU** - National Institute of Statistics/Ecological University of Bucharest  
**Adrian DUSA** - University of Bucharest, Department of Sociology  
**Elena DRUICA** - University of Bucharest, Department of Economic and Administrative Sciences  
**Marius Nicolae JULA** - “Nicolae Titulescu” University, Bucharest  
**Ana Maria CIUHU** - National Institute of Statistics, Bucharest

### SECRETARIATE

*Ana Maria CIUHU, National Institute of Statistics*

### CONFERENCE VENUE

*National Institute of Statistics, No.16 Libertatii Bvd., District 5, Bucharest, Romania*

## PROGRAMME

Conference Room of *National Institute of Statistics*, Blue Hall, Ground Floor.

### November 6, Monday

12<sup>30</sup> – 13<sup>00</sup>

**Registration of participants**

13<sup>00</sup> – 13<sup>30</sup>

**Welcoming Address**



Tudorel ANDREI, President of National Institute of Statistics, Romania



Jean-Marc MUSEUX, Eurostat representative

**Open Session**



Nicoleta CARAGEA, President of Organizing Committee

**Keynote Speakers Address**



Bogdan OANCEA, National Institute of Statistics/ University of Bucharest, Romania



Ciprian ALEXANDRU, National Institute of Statistics/Ecological University of Bucharest, Romania

13<sup>30</sup> – 15<sup>30</sup> **Workshops Session (I)**



*Statistical data cleaning with R*



Mark van der Loo - Statistics Netherlands



*Current developments in R-packages sdcMicro and sdcTable for statistical disclosure control*



Bernhard Meindl - Statistics Austria

15<sup>30</sup> – 16<sup>00</sup> **Coffee Break and Group Photo**

16<sup>00</sup> – 18<sup>00</sup> **Workshops Session (II)**



*Outlier detection in R: some remarks*

Marcello D'Orazio - Food and Agriculture Organization of The United Nations



*R in the statistical office: the UNIDO experience*



Valentin Todorov - United Nations Industrial Development Organization (UNIDO)

19<sup>00</sup>

**Dinner**

**November 7, Tuesday**

**9<sup>00</sup> – 9<sup>15</sup>** **Video-Conference, UROS2017 - ASIA PACIFIC, Universiti Teknologi MARA  
Kedah, Malaysia, [www.icmskdh.net](http://www.icmskdh.net)**

**Welcoming Address**

Abd Razak Ahmad, Malaysia  
Matthias Templ, Keynote Speaker, Austria  
Kamarul Ariffin Mansor, Malaysia

**9<sup>15</sup> – 11<sup>00</sup>** **Conference Working Session (I)**  
*Chairman: Mark van der Loo, Statistics Netherlands*

1. *Towards a new architecture model for cooperation using shared algorithms*



Jean-Marc Museux  
EUROSTAT

2. *Using R in the Statistical Office: the experience of Statistics Netherlands and  
Statistics Austria*



Alexander Kowarik, Statistics Austria  
Mark van der Loo, Statistics Netherlands

3. *Methods library of embedded R functions at Statistics Norway*



Øyvind Langsrud  
Statistics Norway - Division for methods

4. *Automation of publications using knitr*



Guido Schulz  
The Federal Statistical Office of Germany

5. *Determination of the optimal stratum boundaries in the monthly retail trade  
survey in the Croatian Bureau of Statistics*



Ivana Jurina  
Croatian Bureau of Statistics  
Lidija Gligorova  
Croatian Bureau of Statistics

**11<sup>00</sup> – 11<sup>15</sup>** **Coffee Break**

**11<sup>15</sup> – 13<sup>00</sup> Conference Working Session (II)**

*Chairman: Alexander Kowarik, Statistics Austria*

1. *Using a generalized beta of the second kind distribution to estimate gender wage discrimination*



Mihaela-Catalina Anastasiade

Alina Matei

Yves Tillé

Department of Statistics, University of Neuchâtel, Switzerland

2. *airqualitR: An R package on Air Quality - Information for Turkey*



Umit Isikdag

Mimar Sinan University, Department of Informatics, Istanbul, Turkey

Olgun Aydin

Mimar Sinan University, Department of Statistics, Istanbul, Turkey

3. *rTempo – an R package to access the Tempo online database*



Ana-Maria Țîru, National Institute of Statistics

Iulia Toma, The Bucharest University of Economic Studies

Marian Necula, National Institute of Statistics

4. *A supervised Multiclass Classifier for an Autocoding System*



Yukako Toko

National Statistics Center, Research and Development Division, Japan

Kazumi Wada

National Statistics Center, Research and Development Division, Japan

Mariko Kawano

National Statistics Center, Research and Development Division, Japan

5. *Disclosure Control for Tabular Data in R*



Kazuhiro Minami

Institute of Statistical Mathematics/National Statistics Center, Japan

Yutaka Abe, National Statistics Center, Japan

**13<sup>00</sup> – 14<sup>00</sup> Lunch**

**14<sup>00</sup> – 15<sup>45</sup> Workshops Session (III)**



*Survey sampling techniques with R*

Camelia GOGA, Institut de Mathématiques de Bourgogne, Université de Bourgogne, France



*Fast robust center estimation, clustering and Principal Components Analysis with large samples in high dimension with R*


Hervé Cardot, Institut de Mathématiques de Bourgogne, Université de Bourgogne, France

**14<sup>00</sup> – 15<sup>45</sup> Conference Working Session (III) – parallel section (Protocol Room 1st floor)**  
*Chairman: Ciprian Alexandru - National Institute of Statistics/Ecological University of Bucharest, Romania*

-  1. *R programming for the Quarterly National Accounts: Moroccan case*  
Houssam Hachimi  
High Commission for Planning–National Account Department, Morocco
-  2. *Small Area Estimation Methodology on Bogotá Multipurpose Survey*  
José F. Zea, National Planning Department/Statistics Department of Santo Tomás University, Colombia  
Andrés F. Ortiz, Santo Tomás University, Colombia
-  3. *The use of R in the implementation of indirect estimation of monthly unemployment rate (MUR)*  
Grzegorz Grygiel, Statistical Office Centre for Small Area Statistics  
Poznań, Poland
-  4. *Sample allocation in Business Surveys*  
Tomas Rudys, Statistics Lithuania
-  5. *Application of profit-based credit scoring models using R*  
Selçuk Bayracı  
R&D Centre, C/S Information Technologies,  
Istanbul, TURKEY
-  6. *Ethnic, Linguistic and Religious Diversity Analysis in Romania through R and GIS interoperability*  
Claudiu Vințe, Marian Dârdală, Titus Felix Furtună  
Bucharest University of Economic Studies
-  7. *Correspondence Analysis in R to Support Study of Comparative Migration Intentions among Balkan's Youth*  
Claudiu Vințe, Monica Roman  
Bucharest University of Economic Studies

**15<sup>45</sup> – 16<sup>00</sup> Coffee Break**

**16<sup>00</sup> – 17<sup>30</sup> Workshops Session (IV)**

-  *From unstructured data to structured data - Web scraping for Official Statistics*  
Bogdan Oancea - National Institute of Statistics/University of Bucharest, Romania  
Ciprian Alexandru - National Institute of Statistics/Ecological University of Bucharest, Romania



*Working with the 'pglm' package in R. Explaining the number of nosocomial infections in Romanian hospitals*

Elena Druică - University of Bucharest, Department of Economic and Administrative Sciences, Romania

16<sup>00</sup> – 17<sup>30</sup>

**Conference Working Session (IV) – parallel section (Protocol Room 1st floor)**

*Chairman:* Bogdan OANCEA, National Institute of Statistics/University of Bucharest

1. *Modelling the potential human capital on the labor market using logistic regression in R*



Ana Maria Ciuhu, Institute of National Economy, Romanian Academy/ National Institute of Statistics, Romania

Nicoleta Caragea, National Institute of Statistics/Ecological University of Bucharest, Romania

Ciprian Alexandru, Ecological University of Bucharest/National Institute of Statistics, Romania

2. *An R GPU implementation of the GMRES method*



Richard Pospisil

Palacky University of Olomouc, Czech Republic



Bogdan Oancea

National Institute of Statistics/University of Bucharest, Romania

3. *Foreign trade impact on employment efficiency – an analysis using R*



Elena Bănică

National Institute of Statistics, Romania

Valentina Vasile

Institute of National Economy-Romanian Academy, Bucharest, Romania

4. *Gender Differences in Romanian Rural Migration, 2007-2017*



Serban Zodian

Faculty of Agrifood and Environmental Economics-Bucharest University of Economic Studies

5. *Identify Relative importance of covariates in Bayesian lasso quantile regression via new algorithm in statistical program R*



Fadel Hamid Hadi Alhuseini

Department of Statistics and Informatics, University of Craiova, Romania

Taha al Shaybawee

Faculty of Economics and Business Administration, Al-Qadiseya University, Iraq  
Fedaa Abd Almajid Sabbar Alaraje

Department of accounting, University of Craiova, Romania

**Discussions and closing conference**

**Attendance list (without papers or presentations)**

-  Joachim Schork, STATEC - Institut national de la Statistique et des Etudes Economiques-Conditions de vie, Luxembourg
  
-  Silvia PISICĂ  
National Institute of Statistics, Romania
  
-  Joël Bissonnette  
Statistics Canada
  
-  Florentina-Viorica GHEORGHE  
National Institute of Statistics, Romania
  
-  Kerstin LANGE  
Federal Statistical Office of Germany
  
-  Maria-Laura (Jianu) DĂNILĂ  
National Institute of Statistics, Romania
  
-  Elisa ESTEBAN SEGURADO, Instituto Nacional de Estadística, Departamento de Metodología y Desarrollo de la Producción Estadística, Spain
  
-  Ionela-Roxana GLĂVAN  
National Institute of Statistics, Romania
  
-  Cornelia BARTI  
National Institute of Statistics, Romania
  
-  Artur-Emilian SIMION  
National Institute of Statistics, Romania
  
-  Diana-Ioana POPA  
National Institute of Statistics, Romania
  
-  Simona TOMA  
National Institute of Statistics, Romania
  
-  Rodica IOAN  
Spiru Haret University, Romania
  
-  Cristina SIMION  
National Institute of Statistics, Romania

*Contact*

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## BRIEF AGENDA

Conference Room of *National Institute of Statistics*, Blue Hall, Ground Floor.

### November 6, Monday

12:30 - 13:00	Registration of participants
13:00 - 13:30	Welcoming Address and Open Session
13:30 - 15:30	Workshops Session I
15:30 - 16:00	Coffee Break & Group Photo
16:00 - 18:00	Workshops Session II
19:00	Conference Dinner

### November 7, Tuesday

09:00 - 11:00	Working Session I
11:00 - 11:15	Coffee Break
11:15 - 13:00	Working Session II
13:00 - 14:00	Lunch
14:00 - 15:45	Working Session III (paralell section)
14:00 - 15:45	Workshops Session III
15:45 - 16:00	Coffee Break
16:00 - 17:30	Working Session IV (paralell section)
16:00 - 17:30	Workshops Session IV
17:30	Closing conference

## VENUE

National Institute of Statistics, Bucharest, Romania

Address of National Institute of Statistics:

**No.16 Libertatii Bvd., District 5, Bucharest, Romania**



GPS: 44°25'47.5"N 26°05'37.0"E